

1076-108



A/REISSUE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

REISSUE SERIAL NO. :  
FILED :  
GROUP ART UNIT :  
EXAMINER :  
PATENT NO. : 5,397,857  
INVENTORS : Farquhar et al.  
TITLE : PCMCIA STANDARD MEMORY CARD  
FRAME

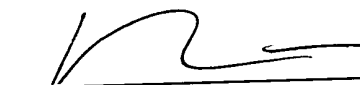
**TRANSMITTAL LETTER FOR  
REISSUE APPLICATION**

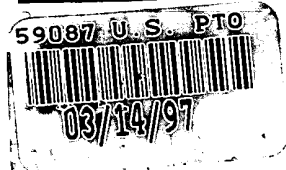
Assistant Commissioner for Patents  
Box 7  
Washington, D.C. 20231

SIR:

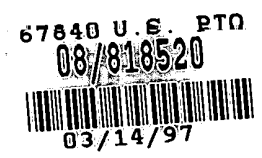
Submitted herewith is a Reissue Application with its Attachment for Methode Electronics, Inc. Enclosed is the requisite filing fee of \$1,076.00. Please charge any additional fees that may be due and owing or credit any over payment to Deposit Account No. 08-2290. ***A duplicate of this sheet is enclosed for this purpose.***

Respectfully submitted,

  
(Reg. No. 30,142)  
Robert M. Barrett  
HILL, STEADMAN & SIMPSON  
A Professional Corporation  
85th Floor Sears Tower  
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ATTORNEYS FOR APPLICANTS



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Ad


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FRAME

TITLE REPORT ORDER

In connection with the identified reissue application, please provide a certified copy of an abstract of title or a title report to be placed in the file. Enclosed is the requisite fee of \$25.00. Please charge additional fees that may be due to Deposit Account No. 08-2290. **A duplicate copy of this sheet is enclosed for that purpose.**

Respectfully submitted,

  
(Reg. No. 30,142)  
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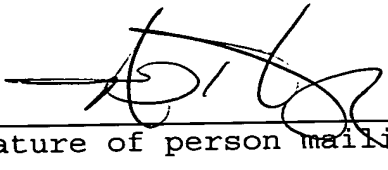
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INVENTORS : Farquhar et al.  
TITLE : PCMCIA STANDARD MEMORY CARD  
FRAME

CERTIFICATE OF MAILING BY EXPRESS MAIL

SIR:

I hereby certify that the following 5 unexecuted Inventor's Declarations and Power of Attorney, Attorney of Record's Declaration, Title Report Order and a check in the amount of \$25.00, Reissue Application totalling 9 pages including 23 claims and Attachment A to Reissue Application, Reissue Application Transmittal Letter in duplicate and a check for the requisite filing fee of \$1,076.00, were deposited in the United States Postal Service Express Mail "Post Office to Addressee" in an envelope marked with Express Mail Certificate # EM 328840003US on Friday, March 14, 1997.

  
\_\_\_\_\_  
Signature of person mailing documents and fees



03/14/97

08/818520



03/14/97

## HILL, STEADMAN &amp; SIMPSON

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March 14, 1997

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49-89-347080


Asst. Commissioner for Patents  
Box 7  
Washington, D.C. 20231

Re: Reissue Patent application for Farquhar et al.  
entitled: "PCMCIA STANDARD MEMORY CARD FRAME,"  
U.S. Patent No.: 5,397,857

SIR:

Under the provisions of 37 CFR §1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Jim Farquhar.

Respectfully,

  
Robert M. Barrett (Reg. No. 30,142)  
ATTORNEY FOR APPLICANTS

1060/1165:1185  
Enclosures

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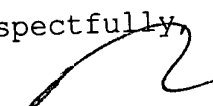
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U.S. Patent No.: 5,397,857

SIR:

Under the provisions of 37 CFR §1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Iggoni Fajardo.

Respectfully,

  
Robert M. Barrett (Reg. No. 30,142)  
ATTORNEY FOR APPLICANTS

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Respectfully,

  
Robert M. Barrett (Reg. No. 30,142)  
ATTORNEY FOR APPLICANTS

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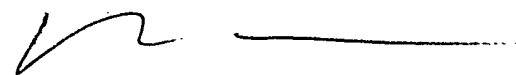
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SIR:

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Respectfully,

  
Robert M. Barrett (Reg. No. 30,142)  
ATTORNEY FOR APPLICANTS

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Respectfully,

  
Robert M. Barrett (Reg. No. 30,142)  
ATTORNEY FOR APPLICANTS

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Enclosures



# United States Patent [19]

Farquhar et al.

[54] PCMCIA STANDARD MEMORY CARD  
FRAME

[75] Inventors: Jim Farquhar, Coronado; Charlie  
Centofante, Hollister; Ken Dorf, San  
Jose; Brandt Weiherzahn, Pleasanton;  
Iggoni Fajardo, San Jose, all of Calif

[73] Assignee: Dual Systems, San Jose, Calif.

[21] Appl. No.: 92,012

[22] Filed: Jul. 15, 1993

[51] Int. Cl.<sup>6</sup> ..... H05K 5/03; H05K 7/00

[52] U.S. Cl. .... 174/52.1; 361/753;  
361/575

[58] Field of Search, ..... 361/684, 737, 748, 753,  
361/752, 757; 174/52.4, 52.5, 52.1; 428/76, 192,  
542.8; 156/73.1; 264/248, 272.17

[56] References Cited

## U.S. PATENT DOCUMENTS

3,579,817	5/1971	Boyle	174/52.4
3,901,731	8/1975	Warszawski et al.	429/9
4,164,068	8/1979	Shropshire et al.	156/73.1
4,305,897	12/1981	Hazama et al.	264/248
5,107,073	4/1992	Steffen	174/52.1
5,208,732	5/1993	Baudouin et al.	361/684
5,242,310	9/1993	Leung	361/737



US005397857A

(11) Patent Number: 5,397,857  
(45) Date of Patent: Mar. 14, 1995

#### OTHER PUBLICATIONS

- Branson Technical Brochure, PW-4, Ultrasonic Insertion, Nov. 1981.
- Branson Technical Brochure, PW-3, Joint Design For Ultrasonic Welding, Aug. 1980.

*Primary Examiner*--Michael W. Ball  
*Assistant Examiner*--Richard Crispino  
*Attorney, Agent, or Firm*--Keith Kline

[57]

#### ABSTRACT

A container for a memory card and the process by which the container is manufactured. The container comprises chiefly two stamped steel covers, (an upper and a lower cover half), each secured to a plastic frame element. The cover halves are secured by extended fingers which wrap around the plastic frame. This provides a double layer of metal at the perimeter of the frame. The two cover halves are situated so as to encapsulate the subject PCB and to affix it in its proper position. The two cover halves are then welded together using sonic welding on the plastic frame. The frame has been designed to meet all PCMCIA standards, including polarizing keys and grounding points.

6 Claims, 4 Drawing Sheets

# United States Patent [19]

Farquhar et al.

[54] PCMCIA STANDARD MEMORY CARD  
FRAME

[75] Inventors: Jim Farquhar, Coronado; Charlie  
Centofante, Hollister; Ken Dorf, San  
Jose; Brandt Weibezahn, Pleasanton;  
Iggoni Fajardo, San Jose, all of Calif

[73] Assignee: Dual Systems, San Jose, Calif

[21] Appl No: 92,012

[22] Filed: Jul. 15, 1993

[51] Int. Cl.<sup>6</sup> ..... H05K 5/03; H05K 7/00

[52] U.S. Cl. .... 174/52.1; 361/753;  
361/575

[58] Field of Search ..... 361/684, 737, 748, 753,  
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542.8; 156/73.1; 764/248, 272.17

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5,242,310	9/1993	Leung	361/737

Attachment  
to Each  
Declaration



US005397857A

[11] Patent Number: 5,397,857  
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#### OTHER PUBLICATIONS

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*Primary Examiner*--Michael W. Ball  
*Assistant Examiner*--Richard Crispino  
*Attorney, Agent, or Firm*--Keith Kline

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